

1234 East Shaw Avenue  
Fresno, California 93710-7899  
Telephone: (559) 222-3714  
FAX: (559) 222-2129



November 15, 2000

Will Dorrell  
22230-A South Colorado River Dr  
Sonora, CA 95370

Re: THP Number : N-4-95-2 - Amendment #4  
County : Tuolumne  
Location : S30,31; T3N; R17E  
Acres : 420 Acres


As of November 15, 2000, the major amendment to the above plan has been determined to be in conformance by the Director of Forestry in accordance with the Forest Practice Act and Board of Forestry regulations pursuant thereto and you can amend your operations accordingly:

1. This amendment revises growth information and changes allowable cut.

The Review Team recommends that this Amendment be approved as adequate because the Team found no significant environmental problems in its review of the Amendment.

If mitigating measures were agreed to during the review process, a copy of the Agreement letter has been inserted as Page Two of the approved amendment.

Sincerely,

  
Jim Laughlin, RPF#2426  
Deputy Chief, Resource Management

cw

Attachment(s)

cc: Ranger Unit  
Forester  
Timber/Timberland Owner  
LTO  
State Board  
File

Jim & David

Today I reviewed Will Dorrell's amendment to N-95-2, Oddfellows NTMP, and your return letter dated September 18, 2000. After he corrects the amendment, I may not want to do a PHI based solely on the increased growth projections.

Will provided mitigations for group placement, site preparation, and growth similar to more recent NTMPs. These are probably the only mitigations that I'd like to see added to the NTMP if I did another PHI for a major modification. My observations on group reforestation over the last few years indicate good reforestation practices on this NTMP.

TMF



# CALIFORNIA REFORESTATION, INC.

22230-A So. Colorado River Drive • Sonora, California 95370  
(209) 533-1324

N-4-95-2

AMENDMENT #

RESOURCE MANAGEMENT

SEP 25 2000

CALIF. DEPARTMENT OF FORESTRY  
SIERRA SOUTH HEADQUARTERS

September 21, 2000

Chief Region IV  
California Dept. Of Forestry and Fire Protection  
1234 East Shaw Avenue  
Fresno, CA 93710-7899

Attention: Mr. David Irion

Re: N-95-2, Oddfellows NTMP

Dear David:

In order to continue to meet the landowner objectives and ensure that the above NTMP meets the CDF objective of maximum sustained productivity of high quality wood products, a timber inventory was conducted in the fall of 2000. The following pages detail the results of the inventory and provide appropriate amendments to the NTMP to reflect the increase in timber volume. This is a major amendment.

In brief, the current standing timber inventory is 9,931 MBF or 23.6 MBF per acre. The estimated timber volume in 1995 when the NTMP was approved was 9,139 MBF or 21.8 MBF per acre. This represents a net gain of 742 MBF to the total standing inventory. Harvests during the period from 1995 thru 2000 were 1,702 MBF. Adding the inventory gain to the harvest volume results in a total growth number for the five year period of 2,444 MBF or approximately 489 MBF per year. This far exceeds the NTMP's estimated growth rate of 252 MBF per year and harvest level of 2,200 MBF per decade.

In addition, during the timber inventory, watercourse crossings, skid trails and roads were checked within the logged areas. The protection measures prescribed in the NTMP and implemented on the ground have been effective in preventing resource damage. Four group selection areas have been site prepared and planted and two more will be done this season.

Let me know if you have any questions or need more information.

Sincerely,

Will Dorrell  
Forester, 2311

## Oddfellows NTMP - Current Stand Conditions

An updated inventory of the 420 acres of timberland currently under an NTMP was conducted in September of 2000. The inventory was designed to provide a statistically valid estimate of total standing volume as well as provide data on sub-merchantable timber in order to adequately represent stand characteristics. A total of 237 variable plots were established on a uniform grid pattern throughout the NTMP area. A 20 BAF prism was used with trees 11.0" DBH and over being measured and trees 4" to 10" DBH being recorded. On a volume basis, the standard error for the inventory was 4.96% at the 95% confidence level. See stand table for specific inventory data.

The timber stands have benefitted greatly from increased rainfall and management in the past five years. Stands are multi-storied mixed conifer, dominated by ponderosa pine. Regeneration established prior to 1995 has been adequately released and areas of continued regeneration are found throughout the harvested areas. South facing slopes are nearly pure ponderosa pine over bearclover with a scattered cedar or sugar pine. Natural regeneration is limited to disturbed areas where bearclover is not present. Total basal area is 171.6 sq.ft. per acre with an average volume of 23.6 MBF per acre.

## Growth Projections and Harvest Level

Three methods were used to determine a sustainable growth and harvest level for the Oddfellows property: **1)** Direct inventory comparison for the 1995-2000 period, **2)** the California Conifer Timber Output Simulator (CACTOS) and **3)** a percentage of inventory estimation. The methods are described below:

- The estimated timber volume in 1995 when the NTMP was approved was 9,139 MBF or 21.8 MBF per acre. The standing inventory as of September, 2000 is 9,931 MBF 23.6 MBF per acre. This represents a net gain of 742 MBF to the total standing inventory. Harvests during the period from 1995 thru 2000 were 1,702 MBF. Adding the inventory gain to the harvest volume results in a total growth number for the five year period of 2,444 MBF or approximately 489 MBF per year.
- The CACTOS growth model was developed for use on mixed conifer stands in the Sierra Nevada mountains. Inputting the inventory data into CACTOS, growing the current stand for 10 years and adjusting for defect yields a growth rate of 384 MBF per year for the property.
- Although intensively managed forests can grow at a much higher percentage, a typical unevenaged mixed conifer forest grows will grow at an average rate of 3.5%. Applying a 3.5% growth rate to the current inventory of 9,931 MBF yields a growth rate of 347 MBF per year.

RESOURCE MANAGEMENT

Oddfellows NTMP Amendment, 9-13-00

SEP 15 2000

CALIF. DEPARTMENT OF FORESTRY  
SIERRA SOUTH HEADQUARTERS

Dbh	PP			SP			WF			DF			IC			Total		
	TPA	BA/AC	MBF/AC	TPA	BA/AC	MBF/AC	TPA	BA/AC	MBF/AC	TPA	BA/AC	MBF/AC	TPA	BA/AC	MBF/AC	TPA	BA/AC	MBF/AC
4	4.8	0.4		1.0	0.1		1.9	0.2		1.0	0.1		4.8	0.4		13.5	1.2	
6	5.2	1.0		1.7	0.3		3.9	0.8					13.8	2.9		24.6	4.8	
8	2.2	0.8		0.5	0.2		3.9	1.4		1.5	0.5		9.9	3.5		18.0	6.3	
10	2.8	1.5		0.8	0.4		3.1	1.7		0.6	0.3		8.8	4.8		16.1	8.8	
12	2.4	1.9	0.106	0.5	0.4	0.025	2.4	1.9	0.106	0.8	0.6	0.032	8.0	6.3	0.086	14.1	11.1	0.364
14	2.2	2.4	0.185	0.4	0.4	0.040	1.0	1.1	0.090	0.6	0.6	0.038	4.0	4.3	0.264	8.2	8.8	0.617
16	2.3	3.2	0.315	0.9	1.3	0.135	1.8	2.5	0.259	1.3	1.8	0.198	4.7	6.6	0.324	11.0	15.4	1.231
18	2.1	3.7	0.468	0.3	0.5	0.075	1.3	2.3	0.306	0.6	1.1	0.132	3.2	5.7	0.362	7.5	13.3	1.342
20	2.2	4.8	0.968	0.4	0.9	0.140	1.1	2.4	0.443	0.5	1.1	0.170	2.2	4.8	0.330	6.4	14.0	2.051
22	2.0	5.3	1.050	0.5	1.3	0.213	1.1	2.9	0.685	0.5	1.3	0.219	1.3	3.4	0.304	6.4	14.3	2.370
24	2.0	6.3	1.250	0.2	0.6	0.110	0.8	2.5	0.535	0.3	0.9	0.166	0.9	1.1	0.456	4.6	10.7	2.475
26	1.3	4.8	1.105	0.4	1.5	0.290	0.5	1.8	0.422	0.4	1.5	0.272	1.3	4.1	0.456	3.5	12.4	2.533
28	1.3	5.6	1.333	0.5	2.1	0.425	0.4	1.7	0.360	0.3	1.3	0.226	0.4	1.7	0.190	2.9	8.8	1.906
30	0.7	3.4	0.898	0.4	2.0	0.398	0.3	1.5	0.300	0.2	1.0	0.200	0.2	1.0	0.110	1.8	9.5	2.035
32	0.6	3.4	0.885	0.5	2.8	0.550	0.3	1.7	0.360	0.1	0.6	0.110	0.2	1.1	0.130	1.7	9.5	2.035
34	0.3	1.9	0.503	0.2	1.3	0.260	0.2	1.3	0.340	0.1	0.6	0.130	0.1	0.6	0.085	0.9	5.7	1.318
36	0.2	1.4	0.386	0.2	1.4	0.350	0.1	0.7	0.200	0.1	0.7	0.180	0.1	0.7	0.100	0.7	5.0	1.216
38				0.1	0.8	0.200							0.1	0.8	0.120		1.6	0.320
40	0.1	0.9	0.260	0.1	0.9	0.220										0.2	1.7	0.480
42				0.1	1.0	0.240							0.1	1.0	0.160	0.2	1.9	0.390
44				0.1	1.1	0.250										0.1	1.1	0.250
46																		
48																		
50																		
Total	34.7	52.6	9.710	8.8	21.2	3.921	24.1	28.2	4.306	8.9	14.1	2.072	64.2	65.8	3.638	141.7	171.6	23.646

Total Net MBF 4078.28 1646.61 1808.52 870.24 1627.76 9931.40

TPA: Number of trees per acre  
BA/AC: Basal area per acre measured in sq.ft.  
MBF/AC: 1,000 board feet per acre

YIELD SUMMARY: units = english

Cofile version 4.0 9/28/88 Contains new coefficients.  
stand label = total stand 2000

Mortality On

	min. DBH	merch top
cubic ft.	.0	6
board ft.	8.0	6

species	site	init. age
Pond. Pine	80.	100.
Sugar Pine	80.	100.
Cedar misc	65.	100.
DouglasFir	75.	100.
White Fir	80.	100.

species	et	dbar	tpa	basar	cvol	bdvol	bagro	cvgro	bdgro
Pond. Pine	.00	19.39	24.6	50.4	1.76	10.28	.0	.00	.00
Sugar Pine	.00	22.55	6.8	19.0	.68	4.18	.0	.00	.00
Cedar misc	.00	14.71	45.4	53.6	.92	4.11	.0	.00	.00
DouglasFir	.00	17.81	7.9	13.6	.41	2.27	.0	.00	.00
White Fir	.00	16.43	18.1	26.7	.84	4.70	.0	.00	.00
Totals	.00	17.06	102.9	163.3	4.61	25.54	.0	.00	.00

Pond. Pine	5.00	20.50	24.1	55.2	2.02	12.01	4.8	.26	1.73
Sugar Pine	5.00	24.02	6.7	21.1	.79	4.94	2.2	.11	.76
Cedar misc	5.00	15.44	44.0	57.2	1.03	4.69	3.6	.11	.57
DouglasFir	5.00	19.04	7.7	15.2	.48	2.71	1.6	.07	.45
White Fir	5.00	17.75	17.6	30.3	1.01	5.80	3.6	.17	1.11
Totals	5.00	18.10	100.1	179.0	5.32	30.16	15.7	.71	4.62

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Pond. Pine	10.00	21.63	23.6	60.3	2.30	13.98	5.1	.29	1.96
Sugar Pine	10.00	25.52	6.6	23.5	.91	5.81	2.3	.12	.87
Cedar misc	10.00	16.19	42.8	61.1	1.14	5.32	3.9	.12	.63
DouglasFir	10.00	20.28	7.5	16.9	.56	3.23	1.7	.08	.52
White Fir	10.00	19.06	17.2	34.1	1.21	7.09	3.8	.19	1.29
Totals	10.00	19.17	97.7	195.9	6.12	35.43	16.9	.80	5.27

M

Growth for decade = 9,890 bf  
Annual Growth Rate = 989 bf/acre/year

7.5% Defect Average

$$989 \text{ bf/Ac/yr} \times .925 = 915 \text{ bf/Ac/yr}$$

$$915 \text{ bf/Ac/yr} \times 420 \text{ Ac} = 384 \text{ MBF/yr.}$$

RESOURCE MANAGEMENT

SEP 15 2000

CALIF. DEPARTMENT OF FORESTRY  
SIERRA SOUTH HEADQUARTERS

While each of these methods can be defended as producing the correct sustained yield growth rate, the Oddfellow's objectives as described on page 45 of the NTMP require a conservative approach to management. Therefore, the rate to be used to establish harvest levels for the NTMP shall be changed to 347 MBF per year and no more than 3,470 MBF shall be harvested in any decade.

In addition, the following criteria will be used in order to ensure that the group openings are fully stocked and will continue to grow at the projected rates:

- 1) Groups shall be stocked with at least 200 well distributed trees per acre and will maintain an average height growth of at least one foot per year. If brush competition exceeds 50% total ground cover and is at or above the average tree height, the brush competition shall be reduced either mechanically or chemically to an acceptable level. Generally, no more than 10% of a group opening should have competition which is over topping the conifer regeneration.
- 2) A group opening shall be 5 years old or have an average tree height of at least five feet before another group may be harvested adjacent to it except in the case of an insect infestation or other problem which is explained by the RPF in the Notice of Operations.
- 3) The RPF shall map the group openings at the time of the Notice of Operations.
- 4) At 10-15 years after a group is established, if it contains in excess of 400 trees per acre, the RPF preparing the Notice of Operations shall identify a marketing objective and thin the group to an average spacing of 15-20 feet.

The criteria for establishment of group openings will remain essentially the same as described on page 47-2 of the NTMP with two exceptions. First, group openings may occur on slopes greater than 40% especially on the south facing slopes with heavy bearclover competition. Second, the size of group openings will be a minimum of ½ acre in size an range up to 2½ acres based on the ground and timber stand characteristics.

The site preparation plan shall be amended as follows:

**Site Preparation Plan:** Site preparation shall occur in group openings to allow for natural and artificial regeneration. If after 3 years, a group is not stocked with at least 200 countable trees per acre, the group shall be planted to reach this standard. Site preparation will occur within one year of harvest and follow the plan below:

a) On slopes less than 40% or less than 30%, which lead without flattening to a class I or II watercourse, tractors shall be used to mechanically clear brush and logging slash within the group openings. The objective is to leave as much organic material as possible on site while providing adequate regeneration opportunities. Tractors shall not operate within any WLPZ or within 25' of any Class III watercourse. Broadcast burning will be used on all areas with slopes over 40% and may also be used in areas with slopes less than 40%. Chemical site prep may be used prior to and after mechanical site prep to achieve maximum survival and site occupancy. All applications will be made under the recommendations of a Pest Control Advisor. Treatment will include applications to control oaks, manzanita, and bear clover where present without damaging established seedlings.

b) A track type tractor will be used. Chemical site prep will be done by ground application.

c) Residual trees will be left wherever possible. All black oaks greater than 18" dbh shall be left within the Group openings. No trees shall be left within close proximity to piles. Leave trees may be selected and marked with paint or flagging after initial log removal and prior to the start of site prep activities.

d) No exceptions or alternatives to the standard rules are expected.

e) Site preparation activities are expected to occur within the boundaries of the silvicultural prescriptions as mapped.

f) The name, address, and phone number of the person conducting site prep activities will be provided prior to conducting site prep, by the plan submitter.

g) Site preparation is expected to occur in the fall or spring following operations. No site prep will occur during periods of saturated soil conditions or when tractors cannot operate under their own power due to wet conditions.

h) Seedlings shall be from local seed sources and consist of a mix of species depending on pre-harvest stand composition. Planting spacing will be 10 to 15 feet

**RESOURCE MANAGEMENT**

SEP 15 2000



STATE OF CALIFORNIA-THE RESOURCES AGENCY  
DEPARTMENT OF FORESTRY AND FIRE PROTECTION

GRAY DAVIS, Governor

1234 East Shaw Avenue  
Fresno, California 93710-7899  
Telephone: (559) 222-3714  
FAX: (559) 222-2129



September 29, 2000

Will Dorrell  
22230-A So Colorado River Drive  
Sonora, CA 95370

Re: NTMP Number : N-4-95-2 - Amendment #4  
County : Tuolumne  
Location : S30-31;T3N;R17E - 420  
Submitter : Odd Fellows Sierra Park  
Filing Date : September 29, 2000

We are in receipt of your request to amend the above Plan by doing the following:

1. This amendment revises growth information and changes allowable cut.

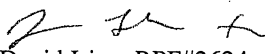
It has been determined that this amendment is a substantial deviation to the Non-Industrial Timber Management Plan pursuant to 14 CCR 1090.14(b) as it could have a potentially significant effect on the environment and is a substantial change from the plan as originally approved. This deviation will, however not require a preharvest inspection and therefore, the waiting period will be confined to 45 days from the date of filing.

At the end of 45 days from the date of filing, the Director of Forestry will determine if the Plan is in conformance with the rules, regulations, and provisions of the Forest Practice Act.

**YOU MAY NOT BEGIN OPERATIONS UNTIL THE PLAN IS APPROVED!**

If you have any questions, you may call this office at (559) 222-3714.

Sincerely,

  
David Irion, RPF#2624  
Division Chief, Forest Practice

vy

cc: Ranger Unit  
Forester  
Timber/Timberland Owners  
LTO  
File

November 15, 2000

**OFFICIAL NOTICE OF  
THE DIRECTOR'S DETERMINATION OF CONFORMANCE OF  
TIMBER HARVESTING PLANS OR AMENDMENTS  
WITH THE RULES OF THE BOARD OF FORESTRY**

On the dates shown, the Director of Forestry found the Timber Harvesting Plans or Amendments listed below to be in conformance with the Forest Practice Act, and Board of Forestry regulations pursuant thereto.

Copies of Timber Harvesting Plans or Amendments and related documents are available for inspection at the office of the Chief, Sierra-South Region, 1234 East Shaw Avenue, Fresno, California 93710-7899, Telephone: (559) 222-3714.

This Notice is posted in compliance with Section 1037.7, Title 14, CCR.

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Plan No.:	N-4-95-2 - Amendment #4
County:	Tuolumne
Submitter:	Will Dorrell
Location:	S30,31; T3N; R17E
Approx. Acres in Plan:	420
Description:	This amendment revises growth information and changes allowable cut.
Stream:	Sugar Pine Creek
Date of Director's Determination:	November 15, 2000

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Plan No.:	
County:	
Submitter:	
Location:	
Approx. Acres in Plan:	
Description:	
Stream:	
Date of Director's Determination:	

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To Posting Agency:

Please post this Notice at the place where official notices concerning environmental compliance are usually posted. If there are questions concerning posting, contact:

**POSTING PERIOD - 30 DAYS**

James Laughlin (559) 222-3714, Ext. 4114